FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number: 3235-02								
Estimated average burden								
hours per response:								

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

								<u> </u>			. ,									
Name and Address of Reporting Person* Davidson David					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
		<u></u>			2 0-			: 4 T		. 4 4	I- /D/V	-\			Direct	or		10% O		
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 01/02/2014								X	below	,		Other (below)	specify	
C/O BLUEBIRD BIO, INC.															Chief Medical Officer					
150 SECOND STREET					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)												X Form filed by One Reporting Person								
CAMBRIDGE MA 02141					_								Form filed by More than One Reporting Person							
(City)	(Si	tate) (Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				2. Transact Date (Month/Day	/Year) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Secur Benef Owner		cially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) o (D)	r Price		Report Transa	llowing ported ansaction(s) str. 3 and 4)		tr. 4)	(Instr. 4)			
Common Stock				01/02/2014				M		10,000) A	\$2.	09	10,000			D			
Common Stock				01/02/2	/2014				S ⁽¹⁾		10,000	0,000 D		83(2)	0		D			
Common Stock 01/0.				01/03/2	014				M		5,000	A	\$2.	09	5,000		D			
Common Stock 01/03/			01/03/2)14			S ⁽¹⁾		5,000		\$20.9	99(3)	9 ⁽³⁾ 0		D					
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of	2.	3. Transaction	3A. D	eemed	4.	a115,	_	umber			isable and	7. Title a) 8. Pi	rice	9. Number	of	10.	11. Nature	
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date	if any			Fransaction Code (Instr. 3)		ivative urities uired or posed D) tr. 3, 4	Expiration Dat (Month/Day/Ye			Amount of Securities Underlying Derivative Security (Instr. and 4)		Secu	ivative urity tr. 5)	derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s Ily 	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amoun or Number of Shares							
Stock Option (right to buy)	\$2.09	01/02/2014			M			10,000	(4)		04/13/2022	Common Stock	10,000	\$(0.00	132,239		D		
Stock Option (right to buy)	\$2.09	01/03/2014			M			5,000	(4)		04/13/2022	Common Stock	5,000	\$(0.00	127,239		D		

Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on October 14, 2013.
- 2. The range of prices for the transaction reported on this line was \$20.22 to \$21.40. The average weighted price was \$20.825. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range of prices for the transaction reported on this line was \$20.83 to \$21.26. The average weighted price was \$20.9873. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. This option vests over a four-year period, at a rate of twenty-five percent (25%) on February 13, 2013 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Linda C. Bain, Attorney-in-Fact 01/03/2014

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{^{\}star}$ If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.